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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yamazaki, et al. Art Unit : 2813
Serial No. : 09/898,986 Examiner : Laura Schillinger
Filed : July 3, 2001
Title : SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE
SAME

**ATTN: GROUP DIRECTOR
ART UNIT 2800**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION UNDER 37 CFR §1.181
TO REVIVE UNAVOIDABLY ABANDONED APPLICATION

Pursuant to 37 CFR §1.181 and in response to the Notice of Abandonment mailed December 1, 2003, applicant hereby petitions to revive the abandoned application. The application was abandoned for failure to respond to the Advisory Action dated July 25, 2003. Applicant, however, submits that any delay was unintentional.

Upon receipt of the July 25, 2003 Advisory Action, applicants' representative conducted a telephone interview with Examiner Laura Schilling. During the interview, an agreement was reached, between the Examiner and applicants' representative, to issue a new action, withdrawing the finality of the action dated March 13, 2003 and thereby setting a new, corresponding time period for response thereto, as well as an interview summary form memorializing the above agreement.

Subsequently, during several telephone conversations, the Examiner related to the applicants' representative that the above-identified application had been lost within the U.S. Patent and Trademark Office. The attached Patent Application Information Retrieval printout evidences the loss of the file. As a result of the loss of the file, the Examiner stated that she was unable to issue either the interview summary form or the new office action. However, the Examiner stated that these items would be issued immediately upon location of the file.

The file was located on November 26, 2003 and shortly thereafter, a Notice of Abandonment was issued by the Examiner. During the subsequent telephone conversation

between the Examiner and applicant's representative, the Examiner agreed that the Notice of Abandonment was issued in error.

Accordingly, the Examiner agreed that the Notice of Abandonment should be withdrawn so that the interview summary form and the new office action could be issued. The Examiner further indicated that, based on the circumstances as described above, any delay by applicant in responding to the action dated July 25, 2003 was unavoidable. As a result, the Examiner indicated that the Notice of Abandonment should be withdrawn and that no fee would be due in association with the filing of this petition.

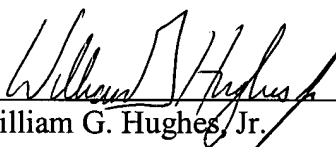
Applicant previously filed a Petition under 37 CFR 1.137(a) to revive the present application on December 18, 2003, but was recently advised by Ms. Francis Hicks in the Petitions Office to file the present Petition directly with the Group Director of Art Unit 2800. Based on the above, applicant requests that the abandonment be withdrawn and that the enclosed Patent Application Information Retrieval printout along with this petition be accepted as a response to the Notice of Abandonment mailed December 1, 2003. A copy of the response to the action dated March 13, 2003 is also enclosed for the Examiner's convenience.

No fee is believed to be due in connection with the filing of this petition. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

July 20, 2004



William G. Hughes, Jr.
Reg. No. 46,112

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PATENT APPLICATION INFORMATION RETRIEVAL

Search results for application number: 09/898,986

Application Number:	09/898,986	Customer Number:	-
Filing or 371(c) Date:	07-03-2001	Status:	Advisory Action Mailed
Application Type:	Utility	Status Date:	03-15-2004
Examiner Name:	SCHILLINGER, LAURA M	Location:	ELECTRONIC
Group Art Unit:	2813	Location Date:	-
Confirmation Number:	3065	Earliest Publication No:	US 2001-0048115 A1
Attorney Docket Number:	07977/163003/US3375D1D1	Earliest Publication Date:	12-06-2001
Class/ Sub-Class:	438/151	Patent Number:	-
First Named Inventor:	Shunpei Yamazaki, Tokyo, (JP)	Issue Date of Patent:	-
Title Of Invention:	Semiconductor device and method of manufacturing the same		

Search Options

<input type="checkbox"/> Continuity Data
<input type="checkbox"/> Published Documents

File History

Date	Contents Description
04-16-2004	Workflow incoming petition IFW
03-15-2004	Notice of Rescinded Abandonment in TCs
01-30-2004	Correspondence Address Change
12-18-2003	Petition Entered
12-01-2003	Mail Abandonment for Failure to Respond to Office Action
12-01-2003	Abandonment for Failure to Respond to Office Action
11-26-2003	File Marked Found
09-05-2003	File Marked Lost
07-25-2003	Mail Advisory Action (PTOL - 303)
07-23-2003	Advisory Action (PTOL-303)
07-19-2003	Date Forwarded to Examiner
07-11-2003	Amendment after Final Rejection
07-11-2003	Request for Extension of Time - Granted
03-13-2003	Mail Final Rejection (PTOL - 326)
03-10-2003	Final Rejection
12-27-2002	Date Forwarded to Examiner
11-22-2002	Response after Non-Final Action
11-22-2002	Information Disclosure Statement (IDS) Filed
08-14-2002	Mail Non-Final Rejection
08-12-2002	Non-Final Rejection
07-23-2002	Date Forwarded to Examiner
07-01-2002	Response to Election / Restriction Filed

05-30-2002	Mail Restriction Requirement
05-29-2002	Requirement for Restriction / Election
07-03-2001	Preliminary Amendment
10-18-2001	Case Docketed to Examiner in GAU
08-23-2001	Application Dispatched from OIPE
08-22-2001	Correspondence Address Change
07-16-2001	IFW Scan & PACR Auto Security Review
07-03-2001	Initial Exam Team nn



JFH/WXH/ADT

Attorney's Docket No. 07977-163003	Express Mail Label No.	Mailing Date July 11, 2003	For PTO Use Only <i>Do Not Mark in This Area</i>
Application No. 09/898,986	Filing Date July 3, 2001	Attorney/Secretary Init JFH/WXH/adt	
Title of the Invention SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME			
Applicant Yamazaki, et al.			
Enclosures <ul style="list-style-type: none">• Check in the amount of \$110.00 (Check No. 167481)• One Month Extension of Time (1 page)• Amendment/Response (11 pages)• Information Disclosure Statement (1 page)• Form PTO-1449 (1 page)			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yamazaki, et al.
Serial No. : 09/898,986
Filed : July 3, 2001
Title : SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME

Art Unit : 2813
Examiner : Laura Schillinger



Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ONE-MONTH EXTENSION OF TIME

Pursuant to 37 CFR §1.136, applicant hereby petitions that the period for response to the action dated March 13, 2003, be extended for one month to and including July 13, 2003.

Enclosed is a check for \$110 for the required fee. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

July 11, 2003

William G. Hughes, Jr.

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Commissioner for Patents

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REPLY

In reply to the action mailed March 13, 2003, please amend the application as indicated on the following pages. Applicant asks that all claims be allowed in view of the amendment to the claims and remarks contained on the following sheets, a total of 11 pages.

Enclosed is a \$110.00 check for the One Month Extension of Time fee. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

July 11, 2003

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In the claims:

Please amend the claims as follows:

Claim 1. (Previously Amended) A method of manufacturing a semiconductor device, comprising the steps of:

forming first and second semiconductor islands on an insulating surface;
introducing ions of a p-type impurity into at least a portion of only said first semiconductor island without mass separation wherein said portion is to become a channel region of a thin film transistor; and
subjecting said first and second semiconductor islands to a thermal oxidization process to form a thermal oxide film on the first and second semiconductor islands wherein said p-type impurity is incorporated into the thermal oxide film formed on said first semiconductor island;
wherein a concentration of said p-type impurity monotonically decreases from a first portion distant from an upper surface of the first semiconductor island to a second portion close to the upper surface in a depthwise direction of the first semiconductor island.

Claim 2. (Previously Amended) A method of manufacturing a semiconductor device as claimed in claim 1,

wherein said first semiconductor island constitutes a p-channel semiconductor device;
wherein said second semiconductor island constitutes an n-channel semiconductor device; and

wherein said p-channel semiconductor device and said n-channel semiconductor device are complementarily combined with each other to form a CMOS structure.

Claims 3-5. (Withdrawn)

Claim 6. (Previously Amended) A method of manufacturing a semiconductor device as claimed in claim 1, wherein a thickness of said first semiconductor island is 100 to 1000Å.

Claim 7. (Previously Amended) A method of manufacturing a semiconductor device as claimed in claim 2, wherein a thickness of said first semiconductor island is 100 to 1000Å.

Claims 8-11. (Withdrawn).

Claim 12. (Original) The method according to claim 1 wherein said semiconductor device is a liquid crystal display device.

Claim 13. (Original) The method according to claim 1 wherein said semiconductor device is an electroluminescent display device.

Claim 14. (Original) The method according to claim 1 wherein said semiconductor device is a video camera.

Claim 15. (Original) The method according to claim 1 wherein said semiconductor device is a personal computer.

Claim 16. (Original) The method according to claim 1 wherein said semiconductor is a projection system.

Claims 17-37. (Withdrawn).

Claim 38. (Previously Added) The method according to claim 1 further comprising a step of forming a gate electrode over said first semiconductor island with said thermal oxide film interposed therebetween as a gate insulating film wherein said gate insulating film contains boron at a concentration of 1×10^{17} to $1 \times 10^{20}/\text{cm}^3$.

Claims 39-45. (Withdrawn).

Claim 46. (Previously Added) The method according to claim 1 wherein said p-type impurity is boron.

Claims 47-63. (Withdrawn).

Claim 64. (New) A method of manufacturing a semiconductor device comprising:
forming a layer of a crystalline semiconductor film on a surface of a substrate,
where the layer includes a portion to be used as a channel region of a thin film transistor;
introducing ions of a p-type impurity into the portion;
selecting a temperature corresponding to a mobility of the ions with respect to an
interface between the crystalline semiconductor film and an oxide;
subjecting the layer to a thermal oxidation process at the temperature to form a
thermal oxide on the layer into which a portion of the ions diffuse from the crystalline
semiconductor film, such that a desired concentration gradient of the ions within the crystalline
semiconductor film is obtained that provides a corresponding adjustment to a threshold voltage
of the thin film transistor.

Claim 65. (New) The method of claim 64 in which the desired concentration gradient
concentration of the ions monotonically decreases from a first portion distant from an upper
surface of the crystalline semiconductor film to a second portion close to the upper surface in a
depthwise direction of the crystalline semiconductor film.

Claim 66. (New) The method of claim 64 in which introducing ions of the p-type
impurity comprises performing ion implantation of the ions.

Claim 67. (New) The method of claim 64 in which introducing ions of the p-type
impurity comprises performing a plasma doping of the ions without mass separation.

Claim 68. (New) The method of claim 64, in which selecting the temperature comprises
selecting a temperature in the range of approximately 800°C to 1000°C.

REMARKS

Claims 1-68 are pending. Claims 3-5, 8-11, 17-37, 39-45, and 47-63 are withdrawn from consideration. In particular, claims 32-37, 39-45, and 47-63, which were submitted in the Reply filed November 14, 2002, are withdrawn in the pending Office Action by virtue of a constructive election.

Claims 64-68 are added by virtue of this amendment. Applicant submits that claims 64-68 should not be subject to withdrawal, since, for example, they are directed to the same species as claim 1 (for example, dependent claim 65 recites the limitation of "a p-type impurity region which monotonically decreases").

Regarding preliminary matters, Applicant thanks the Examiner for acknowledging Applicant's claim for foreign priority under 35 U.S.C. 119, in the Office Action dated August 14, 2003. However, Applicant notes that the Examiner has not acknowledged Applicant's claim for domestic priority under 35 U.S.C. 120, and requests such acknowledgement from the Examiner in the next official communication.

Further, Applicant notes that the Examiner has not indicated acceptance of the drawings filed in the present application, and requests such an indication from the Examiner in the next official communication.

Applicant further thanks the Examiner for consideration of the reference listed on the Form PTO-1449 that was submitted with the IDS submitted on November 14, 2002.

However, Applicant notes that an IDS was provided with the filing of the present application (on July 3, 2001) that the Examiner has not yet acknowledged, and Applicant respectfully requests such acknowledgement from the Examiner in the next official communication.

More specifically, the July 3 IDS lists, on Forms PTO-1449 and Forms PTO-892 (four sheets total) all of the references that are of record in the parent application(s) of the present application (as indicated in the transmittal papers associated with the filing of the present application). The August 14 Office Action includes these listings marked "not considered," and states that the reference listings were ... "improper and will not be considered as an IDS," and that "...date of any re-submission...will be the date of submission for purposes of determining

compliance with the requirements" (see August 14 Office Action, page 2, paragraph 2). The Office Action further requests copies of a number of non-patent references listed in the IDS.

Applicant respectfully believes these actions to be improper on a number of fronts. First, Applicant points out that, as mentioned above, the references in question are references previously cited in parent application(s). Therefore, the Examiner of an application is under a duty to consider such references, regardless of whether they are submitted in the present application (See, e.g., MPEP 609(I)(A)(2), stating, "(t)he Examiner *will consider* information which has been considered by the Office in a parent application when examining...a divisional application filed under 37 CFR 1.53(b)," emphasis added). Further, the same MPEP section goes on to point out that "(s)uch information need not be resubmitted in the continuing application unless the applicant desires the information to be printed on the patent" (*Id.*).

Second, Applicant respectfully submits that the date of submission of the IDS is properly considered to be its filing date, i.e., July 3, 2001. That is, the Office Action errs in stating that the IDS fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP 609. Those provisions deal with substantive issues of proper identification and timely submission of references, not formal matters of how those references are listed when submitted.

For example, the August 14 Office Action refers to MPEP 609(III)(C)(1), which identifies "noncomplying" Information Disclosure Statements, such as non-compliance with timing requirements or requirements for appropriate fees and/or statements. This section does not address matters of form. In contrast, MPEP 609(III)(C)(2) states that "If...citations are submitted on a list other than on a Form PTO-1449...the Examiner may write 'all considered' and his or her initials to indicate that all citations have been considered."

Third, regarding the foreign-language references, Applicant submits that, under 37 CFR 1.98(d), there is no requirement to submit copies of these references, inasmuch as they were already properly submitted in the parent applications (specifically, Application No. 08/890,591, filed July 8, 1997, and Application No. 09/272,701, filed March 18, 1999). Nonetheless, if these copies were somehow misplaced from the parent file, Applicant would be happy to obtain and provide additional copies for the Examiner's convenience.

In concluding remarks regarding the IDS submitted on July 3, 2001, Applicant is happy to provide, for the Examiner's convenience, a listing of the references in question on a clean

Form PTO-1449 submitted with the present Reply. However, inasmuch as this listing is merely a re-statement of previously-submitted references, all of which are believed to be of record in the parent application(s), Applicant respectfully submits that no additional statement or fee is due at this time. Applicant requests that the Examiner indicate acknowledgement of submission and consideration of the listed references by including an initialed copy of the clean Form PTO-1449 submitted with this Reply when transmitting the next official communication, so that the references may be properly listed on the face of any patent that may issue from the present application.

Regarding the constructive election of claims 32-37, 39-45, and 47-63 (which were submitted in the Reply filed November 14, 2002) that is dictated by the withdrawal of these claims in the pending Office Action, Applicant respectfully submits that claims 55-63 appear to have been incorrectly or inadvertently included in the list of withdrawn claims.

Specifically, the Office Action states that claims 32-37 are withdrawn as being dependent from non-elected claim 11, whereas claims 39-45 and 47-53 are said to constitute a separate species from that of elected claim 1, for the reason that "they do not require a p-type impurity region which monotonically decreases (see Office Action, page 2, paragraph 1). First, Applicant notes that claim 54 depends from withdrawn claim 48, and so apparently should have been included in the listing of claims 47-53.

Second, no mention of claims 55-63 is made during the discussion of claims to be withdrawn. Nonetheless, these claims are later included in the listing of withdrawn claims (see Office Action, page 1, paragraph 2). In reading claim 55, Applicant notes that the primary difference between amended claim 1 and claim 55 is the recitation of "plasma doping," and that claim 55 does include the limitation of a monotonically decreasing p-type impurity, as recited therein. Therefore, Applicant respectfully submits that claim 55 should not have been withdrawn from consideration, and requests examination on the merits in the Examiner's next official communication.

Claims 1, 2, 6, 7, 12-16, 38, and 46 are rejected under 35 U.S.C. 112(1), as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to make and/or use the invention.

Regarding this rejection, the Office Action points out that each of these claims recite the terminology "without mass separation," and cites this claim element(s) as the basis for the rejection. Specifically, the Office Action states that "...there is no disclosure within the specification of how Applicant's method prevents mass separation. In fact, the terms mass separation are not located within the specification and therefore Applicant's amended claim language is not properly enabled by the specification" (see Office Action, page 3, lines 1-4).

In stating that the term "mass separation" is not located within the specification, the Office Action clearly errs. In fact, the term appears no less than five times within the specification.

For example, the specification states at page 11, lines 9-17, with emphasis added,

"B ions that are obtained by mass separation are implanted by ion implantation at a concentration of from 1×10^{16} to 1×10^{19} /cm³. This method enables selective addition of B ions alone, and is therefore advantageous in controlling the quantity of addition (addition concentration). Plasma doping can be mentioned as an alternative method for ion implantation, but without using mass separation. In case such a means is used, a diffusion step must be incorporated because B ions are added as clusters together with other atoms and molecules."

A similar discussion in another context provides another example (see specification, page 33, lines 10-17).

As another example, the specification states at page 21, lines 1-12, with emphasis added,

"In Example 1, the channel doping step is performed immediately after the formation of an island-like semiconductor layer. However, the channel-doping step can be effected between other steps. For instance, doping can be carried out on an amorphous silicon film before it is crystallized, or on a crystalline silicon film before it is patterned into an island-like semiconductor layer. In case of performing doping on an amorphous silicon film, in particular, ion implantation method without using mass separation (in which the ions to be added are implanted in the form of clusters) can be performed without any problem because the doped ions are allowed to diffuse uniformly into the film during the crystallization."

As is clear from the above sections, and from various other discussions within the specification, there are various techniques for introducing an ion, such as a p-type ion including Boron, into a substance. For example, techniques such as ion implantation or plasma doping may be used.

When performing such implantation or doping, and considering Boron in particular, Boron, like many other elements, may not occur naturally in a convenient elemental form. Often a Boron-containing substance must be purified to some extent to obtain (substantially) pure Boron, such as by performing mass separation to avoid obtaining Boron atoms as part of "clusters together with other atoms and molecules" that have different masses (see specification, page 11, lines 16-17).

Typically, processes involving Boron-containing substances (e.g., without having had a mass separation performed) may be easier or cheaper to implement, since fewer process steps may be required. However, pure Boron and various Boron-containing substances may diffuse or otherwise behave differently from one another, depending on their individual properties and make-up.

As explained in the specification and discussed in more detail below, the method(s) recited in independent claim 1 advantageously allow the convenient introduction of ions without requiring mass separation. For example, independent claim 1 recites "introducing ions of a p-type impurity ... without mass separation," (e.g., using ion implantation or plasma doping), while independent claim 55, which Applicant believes to have been inadvertently withdrawn, recites "introducing ions of a p-type impurity ... by plasma doping without mass separation."

Based on the above, Applicant respectfully submits that the rejection under 35 USC 112 (1) is improper, and should be withdrawn. As a result, Applicant respectfully requests that the finality of the pending Office Action is improper, and also should be withdrawn. Further, inasmuch as no substantive rejection of (amended) claims 1, 2, 6, 7, 12-16, 38, and 46 (as well as claims 55-63, which Applicant believes to have been inadvertently withdrawn) has been issued, Applicant respectfully submits that all of these claims should now be passed to allowance.

Regarding new claims 64-68, Applicant also believes these claims to be in condition for allowance, and such action is requested. For example, claim 64 recites,

forming a layer of a crystalline semiconductor film on a surface of a substrate, where the layer includes a portion to be used as a channel region of a thin film transistor;
introducing ions of a p-type impurity into the portion;
selecting a temperature corresponding to a mobility of the ions with respect to an interface between the crystalline semiconductor film and an oxide;
subjecting the layer to a thermal oxidation process at the temperature to form a thermal oxide on the layer into which a portion of the ions diffuse from the crystalline semiconductor film, such that a desired concentration gradient of the ions within the crystalline semiconductor film is obtained that provides a corresponding adjustment to a threshold voltage of the thin film transistor.

Support for this claim is proved throughout the specification, including, for example, at page 12, line 6 to page 14, line 19. Specifically, as shown in FIGS. 4 and 5A, Boron has a diffusion coefficient that varies with temperature. Thus, by performing thermal oxidation at a particular temperature, the diffusion of (in this case) Boron may be finely controlled, so that an amount of Boron that diffuses out of a silicon layer and into an adjoining silicon oxide layer may be controlled. Thus, the Boron remaining in the silicon layer (i.e., in the channel region of a transistor) may be controlled so as to demonstrate a desired effect on the threshold voltage of the transistor.

In contrast, for example, Yamazaki '563 merely illustrates a doping/thermal oxidation process for a transistor (e.g., see FIG. 21C), in which some residual diffusion of previously-doped Boron may occur during a subsequent oxidation process. However, there is no disclosure or suggestion in Yamazaki '563 of "selecting a temperature corresponding to a mobility of the ions with respect to an interface between the crystalline semiconductor film and an oxide," as recited in new claim 64.

Moreover, there is no disclosure or suggestion in Yamazaki '563 of obtaining "a desired concentration gradient of the ions within the crystalline semiconductor film ... that provides a corresponding adjustment to a threshold voltage of the thin film transistor," as also recited in claim 64.

In this regard, it should be noted that Yamazaki does not appear to provide any teaching regarding an adjustment to a threshold voltage. For example, the August 14 Office Action points to the Abstract and column 21, lines 40-50 of Yamazaki '563 for this teaching. However, these sections deal only with a current leakage problem that results at sub-threshold levels.

That is, particular source/drain voltages imposed on a transistor may allow a drain current to flow even during a sub-threshold condition, as shown in FIG. 3. Yamazaki '563 proposes various solutions to this problem, including, for example, increasing a resistance within a channel region. In any case, modifying a threshold voltage of the transistor does not address this issue, and is not discussed in this context in Yamazaki.

Based on the above, Applicant respectfully submits that new claims 64-68 are allowable, and such action is hereby requested.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Yamazaki, et al. Art Unit : 2813
Serial No. : 09/898,986 Examiner : Laura Schillinger
Filed : July 3, 2001
Title : SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE
SAME



Commissioner for Patents
P.O. Box 1450
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Supplemental to the Information Disclosure Statement filed with this application on July 3, 2001, Applicant submits the attached Form PTO-1449, listing references that are of record in parent cases having Applicant Nos. 09/272,701 (filed March 18, 1999) and 08/890,591 (filed July 8, 1997).

Although the listed references are of record in this Application, as well as in the above-mentioned parent applications, this IDS is being filed to provide, for the Examiner's convenience in initialing, a clean listing of the references on the attached Form PTO-1449.

The references cited on the attached Form PTO-1449 were submitted to and/or cited by the Office in the prior applications and, therefore under Rule 97(d), are not provided in this application.

Inasmuch as the listed references are of record in the above-mentioned parent cases (and because the listed references were included with the July 3 IDS), no fee is believed to be due. In the event that any fee is due, please apply any charges or credit any overpayment to Deposit Account No. 06-1050.

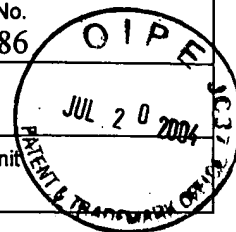
Respectfully submitted,

Date: July 11, 2003

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07977-163003	Application No. 09/898,986
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Yamazaki, et al.	
		Filing Date July 3, 2001	Group Art Unit 2813



U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,898,204	4/1999	Watanabe			
	AB	5,998,854	12/1999	Morishita et al.			
	AC	6,180,957	1/2001	Miyasaka et al.			
	AD	5,550,397	08/27/96	Lifshitz et al.			
	AE	5,552,624	09/03/96	Shotnicki et al.			
	AF	5,616,935	04/01/97	Koyama et al.			
	AG	5,659,192	08/19/97	Sarma et al.			
	AH	5,726,459	03/10/98	Hsu et al.			
	AI						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	04-206971	07/28/92	JAPAN				
	AK	04-286339	10/12/92	JAPAN				
	AL	06-232059	08/19/94	JAPAN				
	AM	07-169974	07/04/95	JAPAN				
	AN	07-176753	07/14/95	JAPAN				
	AO	07/321339	12/08/95	JAPAN				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AP	Wang et al., Enhanced Performance of Accumulation Mode 0.5 μ m CMOS/SOI Operated at 300 K and 85 K, IEEE, IEDM 91, pp. 679-682.
	AQ	Fossum et al., "Anomalous Leakage Current in LPCVD Polysilicon MOSFET's", September 1995, IEEE Transactions on Electron Devices, Vol. ED-32, No. 9; pp. 1878-1884.
	AR	Qian et al., "Inversion/Accumulation-Mode Polysilicon Thin-Film Transistors: Characterization and Unified Modeling", September 1988, IEEE Transactions on Electron Devices, Vol. 35, pp. 1501-1509.
	AS	Malhi et al., "p-Channel MOSFET's in LPCVD Polysilicon", October 1983, IEEE Electron Device Letters, Vol. EDL-4, No. 10, pp. 369-371.

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	